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Sequence Listing could not be accepted.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: [year=2008; month=11; day=17; hr=11; min=46; sec=19; ms=510; ]

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\*\*\*\*\*

Reviewer Comments:

<210> 15  
<211> 188  
<212> PRT  
<213> Mus

<400> 15

Numeric identifier <213> can only be one of three choices, "Scientific name, i.e. Genus/species, Unknown or Artificial Sequence." For all sequences using "Unknown or Artificial sequence", for numeric identifier <213>, a mandatory feature is required to explain the source of the genetic material. The feature consists of <220>, which remains blank, and <223>, which states the source of the genetic material. To explain the source, if the sequence is put together from several organisms, please list those organisms. If the sequence is made in the laboratory, please indicate that the sequence is synthesized. Please make all necessary changes.

\*\*\*\*\*

Application No: 10588417 Version No: 1.0

**Input Set:****Output Set:**

**Started:** 2008-10-22 11:43:01.891  
**Finished:** 2008-10-22 11:43:04.218  
**Elapsed:** 0 hr(s) 0 min(s) 2 sec(s) 327 ms  
**Total Warnings:** 22  
**Total Errors:** 0  
**No. of SeqIDs Defined:** 32  
**Actual SeqID Count:** 32

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 402	Undefined organism found in <213> in SEQ ID (15)
W 402	Undefined organism found in <213> in SEQ ID (17)
W 402	Undefined organism found in <213> in SEQ ID (19)
W 402	Undefined organism found in <213> in SEQ ID (20)
W 402	Undefined organism found in <213> in SEQ ID (21)
W 402	Undefined organism found in <213> in SEQ ID (22)
W 402	Undefined organism found in <213> in SEQ ID (23)
W 402	Undefined organism found in <213> in SEQ ID (24)
W 213	Artificial or Unknown found in <213> in SEQ ID (25)
W 402	Undefined organism found in <213> in SEQ ID (27)
W 402	Undefined organism found in <213> in SEQ ID (28)
W 402	Undefined organism found in <213> in SEQ ID (29)

**Input Set:**

**Output Set:**

**Started:** 2008-10-22 11:43:01.891  
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Error code	Error Description
W 402	Undefined organism found in <213> in SEQ ID (30)
W 402	Undefined organism found in <213> in SEQ ID (31)

<210> 1<211> 30<212> PRT<213> Artificial Sequence<220><223> Synthetic Peptide<400> 1Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly1 5 10 15Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly20 25 30<210> 2<211> 12<212> PRT<213> Artificial Sequence<220><223> Synthetic Peptide<400> 2Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly1 5 10<210> 3<211> 203<212> PRT<213> Ictalurus punctatus<400> 3Met Ser Ala Gln Ala Glu Glu Thr Ala Pro Glu Ala Ala Ala Pro Val1 5 10 15Gln Pro Ser Gln Pro Ala Ala Lys Lys Lys Gly Pro Ala Ser Lys Ala20 25 30Lys Pro Ala Ser Ala Glu Lys Lys Asn Lys Lys Lys Lys Gly Lys Gly35 40 45Pro Gly Lys Tyr Ser Gln Leu Val Ile Asn Ala Ile Gln Thr Leu Gly50 55 60Glu Arg Asn Gly Ser Ser Leu Phe Lys Ile Tyr Asn Glu Ala Lys Lys65 70 75 80

Val Asn Trp Phe Asp Gln Gln His Gly Arg Val Tyr Leu Arg Tyr Ser  
85 90 95

Ile Arg Ala Leu Leu Gln Asn Asp Thr Leu Val Gln Val Lys Gly Leu  
100 105 110

Gly Ala Asn Gly Ser Phe Lys Leu Asn Lys Lys Lys Phe Ile Pro Arg  
115 120 125

Thr Lys Lys Ser Ser Val Lys Pro Arg Lys Thr Ala Lys Pro Thr Lys  
130 135 140

Lys Pro Ala Lys Lys Ala Ala Lys Lys Lys Lys Arg Val Ser Gly Val  
145 150 155 160

Lys Lys Ala Thr Pro Pro Pro Glu Lys Thr Ser Lys Pro Lys Lys Ala  
165 170 175

Asp Lys Ser Pro Ala Val Ser Ala Lys Lys Ala Ser Lys Pro Lys Lys  
180 185 190

Ala Lys Gln Thr Lys Lys Thr Ala Lys Lys Thr  
195 200

<210> 4  
<211> 956  
<212> DNA  
<213> Ictalurus punctatus

<400> 4  
cggcacgagg gttcaatagc atctcaaggc gcttcagaac ttaaagttga accatgtctg 60  
ctcaggctga ggaaactgca ccagaagcag cagcaccagt acaaccatca caaccagcgg 120  
ccaaaaagaa gggacccgcc agtaaagcaa agcctgcctc tgcagaaaaa aagaacaaaa 180  
agaagaaagg gaaagggccc ggaaagtaca gccagctggg gatcaatgct atccaaacgc 240  
tgggagagag aaacggctcg tctcttttta agatctacaa cgaggcgaag aaagtgaact 300  
ggtttgacca gcagcacggg cgcgtgtacc tccgctactc catccgcgcg ctgctgcaga 360  
acgacacgct cgtgcaggtg aagggtctgg gcgccaacgg ctcccttcaag ctcaacaaaa 420  
agaagttcat ccccagaacc aagaagagct ctgtaaagcc gagaaagact gcgaaaccga 480  
ccaaaaagcc agccaaaaaa gcagcgaaga agaagaaaag ggtcagcggc gtgaagaagg 540

cgactcccc cccagagaaa acctccaaac ccaagaaagc ggataaaagt ccagccgtct 600

ctgccaaagaa ggcgagcaag cccaagaaag ctaaacagac aaaaaagact gctaagaaga 660

cttaaaacgt ttatatcttg catgctttgt gcattaagca ttgcactgcg ggtaaactgc 720

acgctttctg atcgagcttc attaatagg atatgcacag tgtttaacca agtgtgcaag 780

tcactctggg ctcaatgttt tactgatgta accacatgta aataactgta caaagaagga 840

aacaatcact tttgtaacgt ctgctttgtt attatttctt ttctactagt tagctaaaat 900

aactgcttat ggcttctttt aaaataaaat gataaaagaa aaaaaaaaaa aaaaaa 956

<210> 5

<211> 956

<212> DNA

<213> Ictalurus punctatus

<220>

<221> CDS

<222> (54)..(662)

<223> ncamp-1 nucleic acid and protein sequence

<400> 5

cggcacgagg gttcaatagc atctcaaggc gcttcagaac ttaaagttga acc atg 56

Met

1

tct gct cag gct gag gaa act gca cca gaa gca gca gca cca gta caa 104

Ser Ala Gln Ala Glu Glu Thr Ala Pro Glu Ala Ala Ala Pro Val Gln

5 10 15

cca tca caa cca gcg gcc aaa aag aag gga ccc gcc agt aaa gca aag 152

Pro Ser Gln Pro Ala Ala Lys Lys Lys Gly Pro Ala Ser Lys Ala Lys

20 25 30

cct gcc tct gca gaa aaa aag aac aaa aag aag aaa ggg aaa ggg ccc 200

Pro Ala Ser Ala Glu Lys Lys Asn Lys Lys Lys Lys Gly Lys Gly Pro

35 40 45

gga aag tac agc cag ctg gtg atc aat gct atc caa acg ctg gga gag 248

Gly Lys Tyr Ser Gln Leu Val Ile Asn Ala Ile Gln Thr Leu Gly Glu

50 55 60 65

aga aac ggc tcg tct ctt ttt aag atc tac aac gag gcg aag aaa gtg 296

Arg Asn Gly Ser Ser Leu Phe Lys Ile Tyr Asn Glu Ala Lys Lys Val

70 75 80

aac tgg ttt gac cag cag cac ggg cgc gtg tac ctc cgc tac tcc atc 344

Asn Trp Phe Asp Gln Gln His Gly Arg Val Tyr Leu Arg Tyr Ser Ile

85 90 95

cgc gcg ctg ctg cag aac gac acg ctc gtg cag gtg aag ggt ctg ggc 392

Arg Ala Leu Leu Gln Asn Asp Thr Leu Val Gln Val Lys Gly Leu Gly  
100 105 110

gcc aac ggc tcc ttc aag ctc aac aaa aag aag ttc atc ccc aga acc 440  
Ala Asn Gly Ser Phe Lys Leu Asn Lys Lys Lys Phe Ile Pro Arg Thr  
115 120 125

aag aag agc tct gta aag ccg aga aag act gcg aaa ccg acc aaa aag 488  
Lys Lys Ser Ser Val Lys Pro Arg Lys Thr Ala Lys Pro Thr Lys Lys  
130 135 140 145

cca gcc aaa aaa gca gcg aag aag aag aaa agg gtc agc ggc gtg aag 536  
Pro Ala Lys Lys Ala Ala Lys Lys Lys Lys Arg Val Ser Gly Val Lys  
150 155 160

aag gcg act ccc ccc cca gag aaa acc tcc aaa ccc aag aaa gcg gat 584  
Lys Ala Thr Pro Pro Pro Glu Lys Thr Ser Lys Pro Lys Lys Ala Asp  
165 170 175

aaa agt cca gcc gtc tct gcc aag aag gcg agc aag ccc aag aaa gct 632  
Lys Ser Pro Ala Val Ser Ala Lys Lys Ala Ser Lys Pro Lys Lys Ala  
180 185 190

aaa cag aca aaa aag act gct aag aag act taaaacgttt atattctgca 682  
Lys Gln Thr Lys Lys Thr Ala Lys Lys Thr  
195 200

tgctttgtgc attaagcatt gcactgcggg taaactgcac gctttctgat cgcagttcat 742

taagtaggat atgcacagtg ttttaaccaag tgtgcaagtc actctgggtct caatgtttta 802

ctgatgtaac cacatgtaaa taactgtaca aagaaggaaa caatcacttt tgtaacgtct 862

gctttgttat tatttcctttt ctactagtta gctaaaataa ctgcttatgg cttcttttta 922

aataaaatga taaaagaaaa aaaaaaaaaa aaaa 956

<210> 6  
<211> 203  
<212> PRT  
<213> Ictalurus punctatus

<400> 6

Met Ser Ala Gln Ala Glu Glu Thr Ala Pro Glu Ala Ala Ala Pro Val  
1 5 10 15

Gln Pro Ser Gln Pro Ala Ala Lys Lys Lys Gly Pro Ala Ser Lys Ala  
20 25 30

Lys Pro Ala Ser Ala Glu Lys Lys Asn Lys Lys Lys Lys Gly Lys Gly  
35 40 45

Pro Gly Lys Tyr Ser Gln Leu Val Ile Asn Ala Ile Gln Thr Leu Gly

505560

Glu Arg Asn Gly Ser Ser Leu Phe Lys Ile Tyr Asn Glu Ala Lys Lys

65707580

Val Asn Trp Phe Asp Gln Gln His Gly Arg Val Tyr Leu Arg Tyr Ser

859095

Ile Arg Ala Leu Leu Gln Asn Asp Thr Leu Val Gln Val Lys Gly Leu

100105110

Gly Ala Asn Gly Ser Phe Lys Leu Asn Lys Lys Lys Phe Ile Pro Arg

115120125

Thr Lys Lys Ser Ser Val Lys Pro Arg Lys Thr Ala Lys Pro Thr Lys

130135140

Lys Pro Ala Lys Lys Ala Ala Lys Lys Lys Lys Arg Val Ser Gly Val

145150155160

Lys Lys Ala Thr Pro Pro Pro Glu Lys Thr Ser Lys Pro Lys Lys Ala

165170175

Asp Lys Ser Pro Ala Val Ser Ala Lys Lys Ala Ser Lys Pro Lys Lys

180185190

Ala Lys Gln Thr Lys Lys Thr Ala Lys Lys Thr

195200

<210> 7

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 7

Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly

151015

Gly Gly Gly Gly

20



<210> 8  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Peptide

<400> 8

Thr Cys Gly Thr Cys Gly Thr Thr Gly Thr Cys Gly Thr Thr Gly Thr  
1 5 10 15

Cys Gly Thr Thr  
20

<210> 9  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Peptide

<400> 9

Cys Cys Cys Cys Cys Cys Cys Cys Cys Cys Cys Cys Cys Cys Cys Cys  
1 5 10 15

Cys Cys Cys Cys  
20

<210> 10  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Peptide

<400> 10

Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala  
1 5 10 15

Ala Ala Ala Ala  
20

<210> 11  
<211> 20

<213> Artificial Sequence

<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Peptide

<400> 11

Thr Thr Thr Thr Thr Thr Thr Thr Thr Thr Thr Thr Thr Thr Thr Thr Thr  
1 5 10 15

Thr Thr Thr Thr  
20

<210> 12  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Peptide

<400> 12

Thr Gly Cys Thr Gly Cys Thr Thr Gly Thr Gly Cys Thr Thr Gly Thr  
1 5 10 15

Gly Cys Thr Thr  
20

<210> 13  
<211> 192  
<212> PRT  
<213> Danio rerio

<400> 13

Met Pro Ala Val Val Glu Glu Ser Ala Pro Ala Pro Ala Pro Ala Pro  
1 5 10 15

Ala Glu Lys Lys Ala Lys Pro Ala Val Ala Ala Ser Pro Ala Lys Lys  
20 25 30

Lys Lys Lys Lys Ser Lys Gly Pro Gly Lys Tyr Ser Lys Leu Val Thr  
35 40 45

Asp Ala Ile Arg Thr Leu Gly Glu Lys Asn Gly Ser Ser Leu Phe Lys  
50 55 60

Ile Tyr Asn Glu Ala Lys Lys Val Ser Trp Phe Asp Gln Lys Asn Gly  
65 70 75 80

Arg Met Tyr Leu Arg Ala Ser Ile Arg Ala Leu Val Leu Asn Asp Thr  
85 90 95

Leu Val Gln Val Lys Gly Phe Gly Ala Asn Gly Ser Phe Lys Leu Asn  
100 105 110

Lys Lys Lys Leu Glu Lys Lys Pro Lys Lys Ala Ala Ser Lys Lys Ala  
115 120 125

Thr Lys Lys Thr Glu Lys Pro Thr Ser Lys Lys Ala Val Thr Lys Lys  
130 135 140

Val Ser Ala Lys Lys Ser Ala Lys Lys Ser Pro Val Lys Lys Lys Thr  
145 150 155 160

Pro Lys Lys Thr Ser Val Lys Lys Ala Thr Ala Lys Pro Lys Lys Thr  
165 170 175

Ala Ser Lys Lys Pro Lys Ala Ala Ala Lys Lys Lys Thr Lys Ser Lys  
180 185 190

<210> 14  
<211> 217  
<212> PRT  
<213> Xenopus laevis

<400> 14

Met Ala Leu Glu Leu Glu Glu Asn Leu His Ser Thr Glu Glu Glu Asp  
1 5 10 15

Glu Glu Glu Glu Glu Glu Glu Gly Asp Glu Met Arg Ser Arg Ser Thr  
20 25 30

Arg Asn Lys Gly Gly Ala Ala Ser Ser Ser Gly Asn Lys Lys Lys Lys  
35 40 45

Lys Lys Lys Asn Gln Pro Gly Arg Tyr Ser Gln Leu Val Val Asp Thr  
50 55 60

Ile Arg Lys Leu Gly Glu Arg Asn Gly Ser Ser Leu Ala Lys Ile Tyr  
65 70 75 80

Ser Glu Ala Lys Lys Val Ser Trp Phe Asp Gln Gln Asn Gly Arg Thr  
85 90 95

Tyr Leu Lys Tyr Ser Ile Lys Ala Leu Val Gln Asn Asp Thr Leu Leu  
100 105 110

Gln Val Lys Gly Val Gly Ala Asn Gly Ser Phe Arg Leu Asn Lys Lys  
115 120 125

Lys Leu Glu Gly Leu Pro Tyr Asp Lys Lys Pro Pro Pro Ala Lys Pro  
130 135 140

Ser Ser Ser Ser Ser Ser Asn Lys Lys Gln Gln Gln Gly Pro Ser Ser  
145 150 155 160

Ser Pro Ser Lys Ser His Lys Lys Ala Lys Pro Lys Ala Lys Ala Glu  
165 170 175

Lys Glu Lys Pro Lys Thr Ser Ser Ala Lys Ala Lys Ser Pro Lys Lys  
180 185 190

Ser Ala Ala Lys Gly Lys Lys Met Lys Lys Gly Ala Lys Pro Ser Val  
195 200 205

Arg Lys Ala Pro Lys Ser Lys Lys Ala  
210 215

<210> 15  
<211> 188  
<212> PRT  
<213> Mus

<400> 15

Met Ser Val Glu Leu Glu Glu Ala Leu Pro Pro Thr Ser Ala Asp Gly  
1 5 10 15

Thr Ala Arg Lys Thr Ala Lys Ala Gly Gly Ser Ala Ala Pro Thr Gln  
20 25 30

Pro Lys Arg Arg Lys Asn Arg Lys Lys Asn Gln Pro Gly Lys Tyr Ser  
35 40 45

Gln Leu Val Val Glu Thr Ile Arg Lys Leu Gly Glu Arg Gly Gly Ser

505560

Ser Leu Ala Arg Ile Tyr Ala Glu Ala Arg Lys Val Ala Trp Phe Asp

65707580

Gln Gln Asn Gly Arg Thr Tyr Leu Lys Tyr Ser Ile Arg Ala Leu Val

859095

Gln Asn Asp Thr Leu Leu Gln Val Lys Gly Thr Gly Ala Asn Gly Ser

100105110

Phe Lys Leu Asn Arg Lys Lys Leu Glu Gly Gly Ala Glu Arg Arg Gly

115120125

Ala Ser Ala Ala Ser Ser Pro Ala Pro Lys Ala Arg Thr Ala Ala Ala

130135140

Asp Arg Thr Pro Ala Arg Pro Gln Pro Glu Arg Arg Ala His Lys Ser

145150155160

Lys Lys Ala Ala Ala Ala Ala Ser Ala Lys Lys Val Lys Lys Ala Ala

165170175

Lys Pro Ser Val Pro Lys Val Pro Lys Gly Arg Lys

180185

<210> 16

<211> 213

<212> PRT

<213> Homo sapiens

<400> 16

Met Ser Val Glu Leu Glu Glu Ala Leu Pro Val Thr Thr Ala Glu Gly

151015

Met Ala Lys Lys Val Thr Lys Ala Gly Gly Ser Ala Ala Leu Ser Pro

202530

Ser Lys Lys Arg Lys Asn Ser Lys Lys Lys Asn Gln Pro Gly Lys Tyr

354045

Ser Gln Leu Val Val Glu Thr Ile Arg Arg Leu Gly Glu Arg Asn Gly

505560

Ser Ser Leu Ala Lys Ile Tyr Thr Glu Ala Lys Lys Val Pro Trp Phe  
65 70 75 80

Asp Gln Gln Asn Gly Arg Thr Tyr Leu Lys Tyr Ser Ile Lys Ala Leu  
85 90 95

Val Gln Asn Asp Thr Leu Leu Gln Val Lys Gly Thr Gly Ala Asn Gly  
100 105 110

Ser Phe Lys Leu Asn Arg Lys Lys Leu Glu Gly Gly Gly Glu Arg Arg  
115 120 125

Gly Ala Pro Ala Ala Ala Thr Ala Pro Ala Pro Thr Ala His Lys Ala  
130